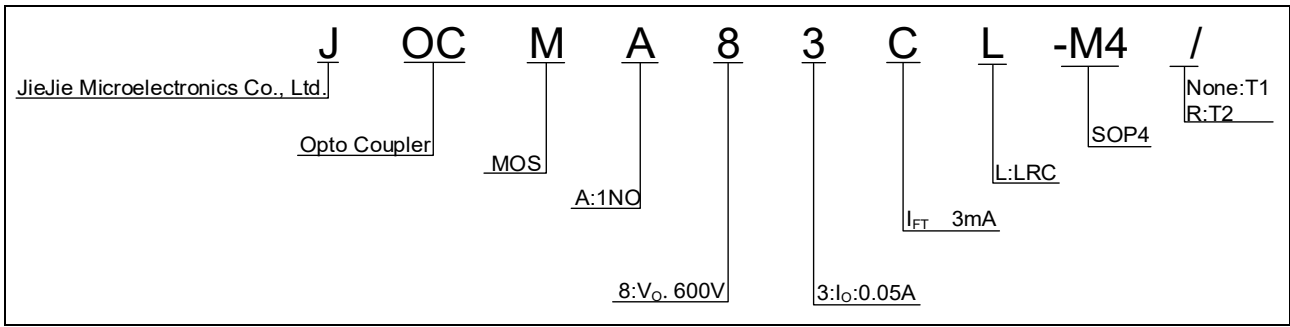
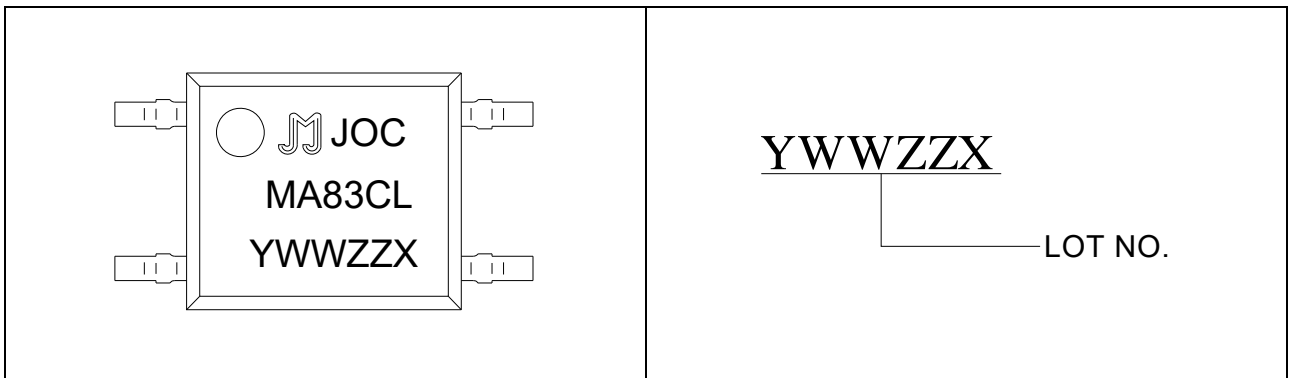




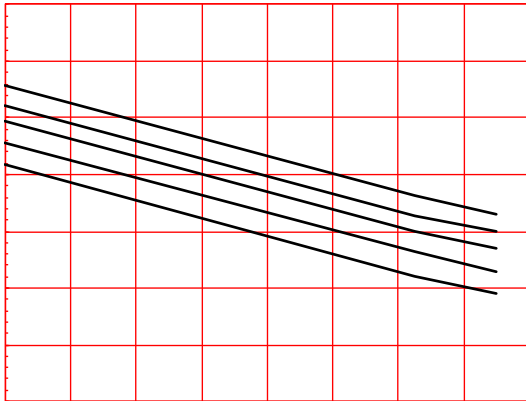
**JOCMA83CL**



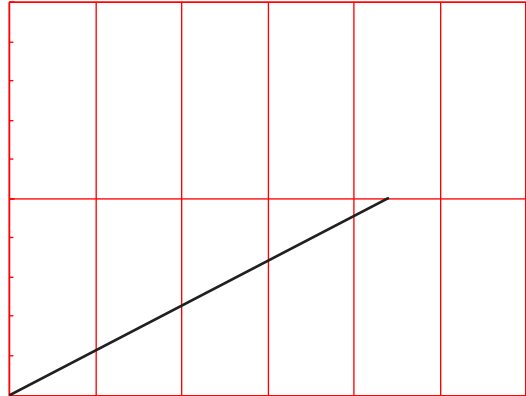
|  |  |
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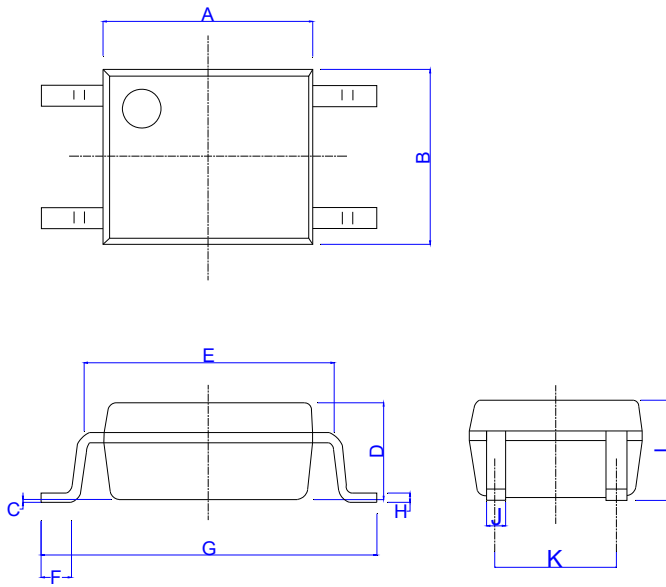
**FIG.1:** LED Dropout Voltage vs. Ambient Temperature



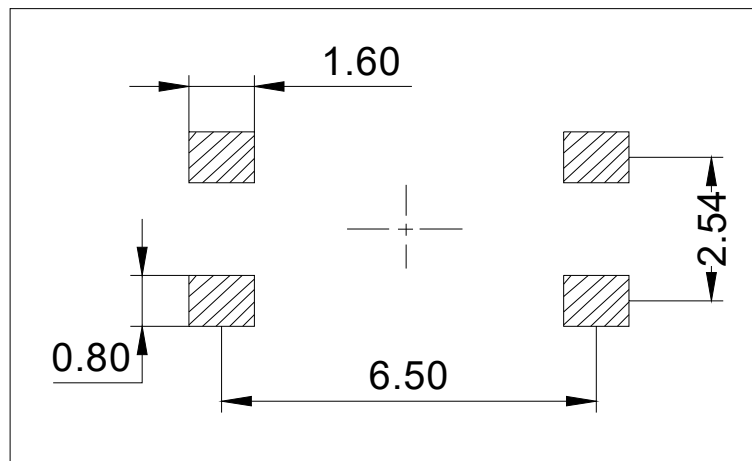
**FIG.2:** Output Current vs. Output Voltage



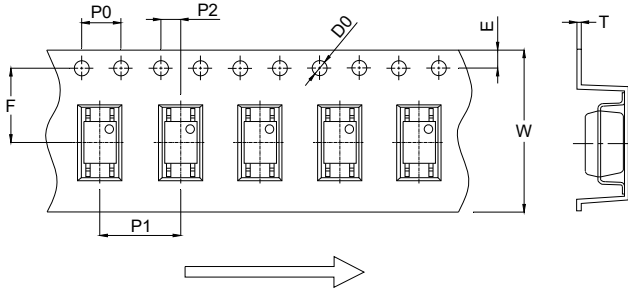
**JOCMA83CL**



| Ref. | Dimensions  |      |      |        |      |       |
|------|-------------|------|------|--------|------|-------|
|      | Millimeters |      |      | Inches |      |       |
|      | Min.        | Typ. | Max. | Min.   | Typ. | Max.  |
| A    | 4.40        |      | 4.80 | 0.173  |      | 0.189 |
| B    | 3.60        |      | 4.20 | 0.142  |      | 0.165 |
| C    | 0.00        |      | 0.20 | 0.000  |      | 0.008 |
| D    | 1.90        |      | 2.30 | 0.075  |      | 0.091 |
| E    | 5.00        |      | 5.60 | 0.197  |      | 0.220 |
| F    | 0.34        |      | 0.94 | 0.013  |      | 0.037 |
| G    | 6.70        |      | 7.30 | 0.264  |      | 0.287 |
| H    | 0.10        |      | 0.30 | 0.004  |      | 0.012 |
| I    | 2.00        |      | 2.40 | 0.079  |      | 0.094 |
| J    | 0.25        |      | 0.55 | 0.010  |      | 0.022 |
| K    | 2.29        |      | 2.79 | 0.090  |      | 0.110 |

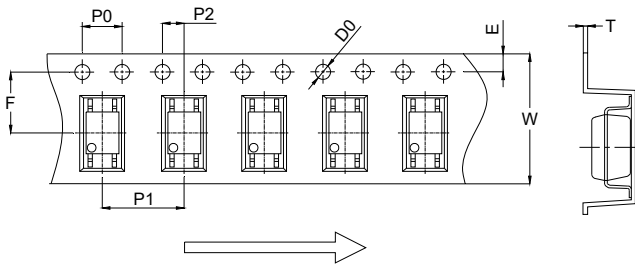


Option None

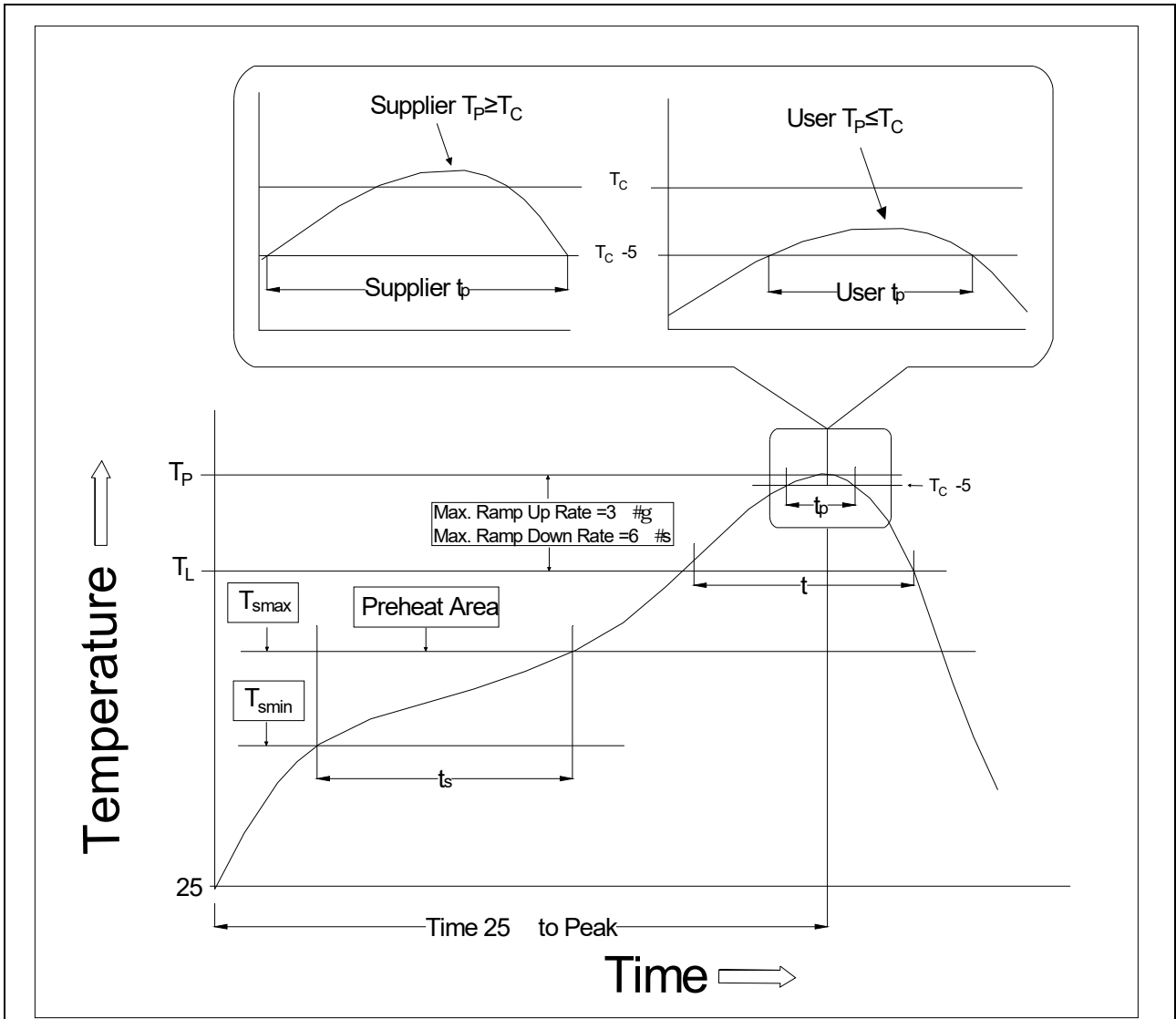


| Ref. | Dimensions  |       |       |        |       |       |
|------|-------------|-------|-------|--------|-------|-------|
|      | Millimeters |       |       | Inches |       |       |
|      | Min.        | Typ.  | Max.  | Min.   | Typ.  | Max.  |
| D0   |             | 1.50  | 1.60  |        | 0.059 | 0.063 |
| P0   | 3.90        | 4.00  | 4.10  | 0.154  | 0.157 | 0.161 |
| P1   | 7.90        | 8.00  | 8.10  | 0.311  | 0.315 | 0.319 |
| P2   | 1.90        | 2.00  | 2.10  | 0.075  | 0.079 | 0.083 |
| E    | 1.65        | 1.75  | 1.85  | 0.065  | 0.069 | 0.073 |
| F    | 7.40        | 7.50  | 7.60  | 0.291  | 0.295 | 0.299 |
| T    | 0.27        | 0.30  | 0.33  | 0.011  | 0.012 | 0.013 |
| W    | 15.80       | 16.00 | 16.20 | 0.622  | 0.630 | 0.638 |

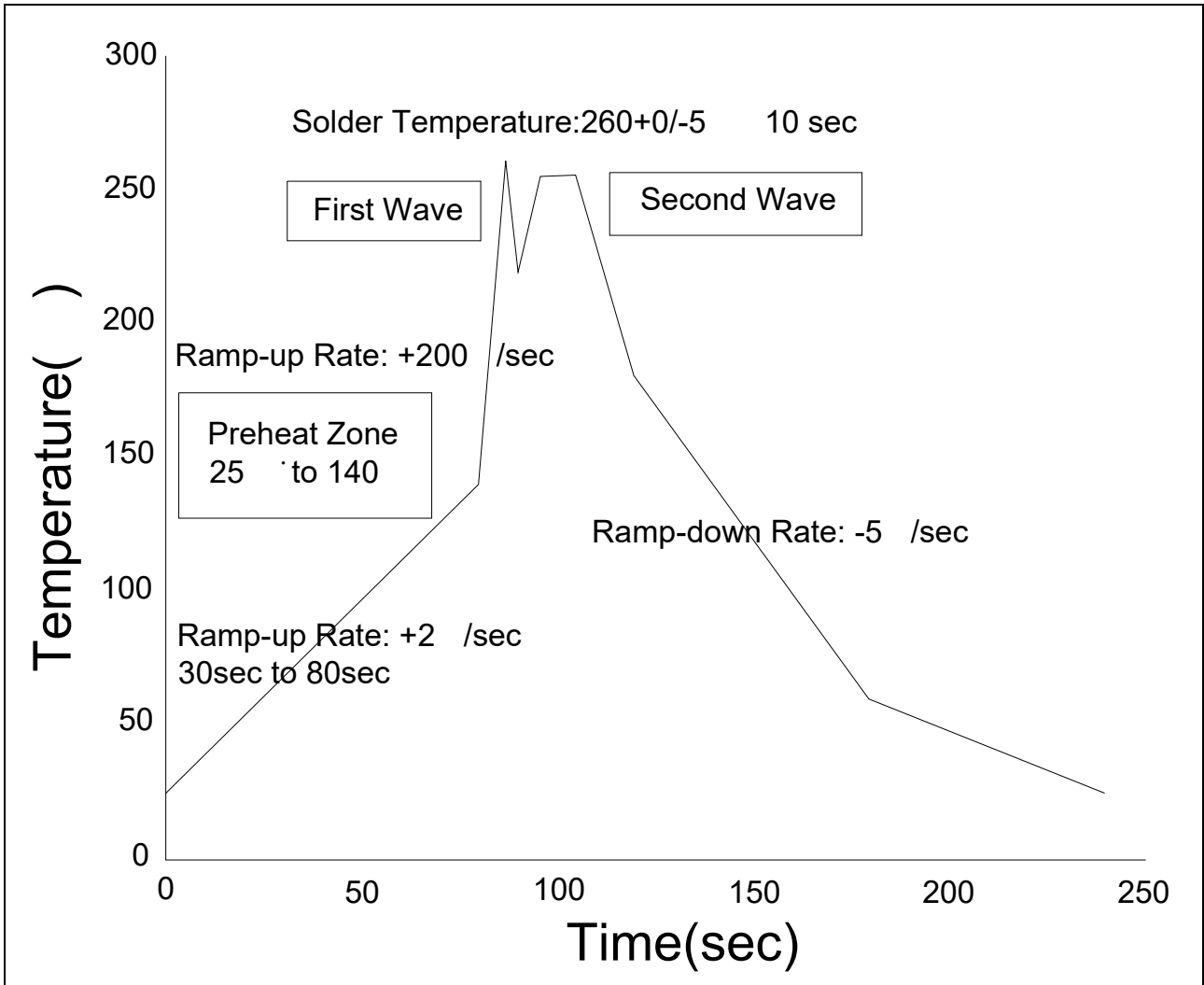
Option R



| Ref. | Dimensions  |       |       |        |       |       |
|------|-------------|-------|-------|--------|-------|-------|
|      | Millimeters |       |       | Inches |       |       |
|      | Min.        | Typ.  | Max.  | Min.   | Typ.  | Max.  |
| D0   |             | 1.50  | 1.60  |        | 0.059 | 0.063 |
| P0   | 3.90        | 4.00  | 4.10  | 0.154  | 0.157 | 0.161 |
| P1   | 7.90        | 8.00  | 8.10  | 0.311  | 0.315 | 0.319 |
| P2   | 1.90        | 2.00  | 2.10  | 0.075  | 0.079 | 0.083 |
| E    | 1.65        | 1.75  | 1.85  | 0.065  | 0.069 | 0.073 |
| F    | 4.40        | 4.50  | 4.60  | 0.173  | 0.177 | 0.181 |
| T    | 0.25        | 0.30  | 0.35  | 0.010  | 0.012 | 0.014 |
| W    | 11.90       | 12.00 | 12.30 | 0.469  | 0.472 | 0.484 |



| Profile Feature                                  | Sn-Pb Assembly Profile | Pb-Free Assembly Profile |
|--|------------------------|--------------------------|
| Temperature Min. ( $T_{smin}$ )                  | 100                    | 150                      |
| Temperature Max. ( $T_{smax}$ )                  | 150                    | 200                      |
| Time ( $t_s$ ) from ( $T_{smin}$ to $T_{smax}$ ) | 60-120 seconds         | 60-120 seconds           |
| Ramp-up Rate ( $t_L$ to $t_P$ )                  | 3 /second max.         | 3 /second max.           |
| Liquidus Temperature ( $T_L$ )                   | 183                    | 217                      |
| Time ( $t_L$ ) Maintained Above ( $T_L$ )        | 60-150 seconds         | 60-150 seconds           |
| Peak Body Package Temperature                    | 235 +0 /-5             | 260 +0 /-5               |
| Time ( $t_P$ ) within 5 of 260                   | 20 seconds             | 30 seconds               |
| Ramp-down Rate ( $T_P$ to $T_L$ )                | 6 /second max.         | 6 /second max.           |
| Time 25 to Peak Temperature                      | 6 minutes max.         | 8 minutes max.           |




|                       |         |
|-----------------------|---------|
|                       |         |
| Soldering Temperature | 360±5   |
| Soldering Time        | 3s max. |

Note:

1. Reflow soldering is recommended at the temperatures and times shown, no more than three times.
2. Avoid direct contact between the epoxy body and any tools or surfaces exceeding its maximum storage temperature.
3. Application of pressure on the epoxy body is prohibited at elevated temperatures. In specific scenarios, any applied force must not exceed 2.5N.
4. Ensure the component has cooled to ambient temperature before proceeding with any subsequent manufacturing steps.
5. The component has a shelf life of one year when stored under standard conditions.
6. Recommend storage Temp.: 0~40°C;  
Recommend storage humidity: <60%;  
MSL level: MSL 1

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